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<u>DB Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
USPT,PGPB,JPAB,EPAB	111 same 110	11	L13
USPT,PGPB,JPAB,EPAB	111 and 110	31	L12
USPT,PGPB,JPAB,EPAB	endosome	780	L11
USPT,PGPB,JPAB,EPAB	dendrimer	834	L10
USPT,PGPB,JPAB,EPAB	ester with 16	47	L9
USPT,PGPB,JPAB,EPAB	16 same 11	0	L8
USPT,PGPB,JPAB,EPAB	16 with 11	0	L7
USPT,PGPB,JPAB,EPAB	endos\$	29637	L6
USPT,PGPB,JPAB,EPAB	12 and 11	4	L5
USPT,PGPB,JPAB,EPAB	12 same 11	0	L4
USPT,PGPB,JPAB,EPAB	12 with 11	0	L3
USPT,PGPB,JPAB,EPAB	nucleic acid or dna	86878	L2
USPT,PGPB,JPAB,EPAB	poly with amido with amine	96	L1

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L13: Entry 8 of 11

File: USPT

Nov 3, 1998

DOCUMENT-IDENTIFIER: US 5830730 A

TITLE: Enhanced adenovirus-assisted transfection composition and method

ABPL:

A composition for transfecting eukaryotic cells comprising a cationic polymer which has protonatable groups which serve to buffer the acidic endosome, protecting the endocytosed polynucleotide from degradation and a viral agent is used to target uptake into and/or lysis from endosomes in the desired eukaryotic cell. By co-infecting the eukaryotic cells with cationic polymer, polynucleotide, and the viral agent, the polynucleotide is brought into the cell and then released. Preferably, polyamidoamine dendrimers are used as the cationic polymer and adenovirus is used as the viral agent. The dendrimers help associate plasmid DNA with the adenovirus, which then provokes receptor-mediated endocytosis. Within the endosome, the tertiary amine groups of the dendrimer buffer the pH change in the endosome. Then, the endosomalytic activity of the adenovirus releases the plasmid DNA into the cell. Also preferably, the adenovirus and the dendrimers are mixed before addition to the polynucleotide and the cells are washed after about 1.5 hours of incubation.

DEPR:

In a preferred embodiment, polyamidoamine dendrimers are used as the cationic polymer and adenovirus is used as the viral agent. The dendrimers help associate plasmid DNA with the adenovirus, which then provokes receptor-mediated endocytosis. Within the endosome, the tertiary amine groups of the dendrimer buffer the pH change in the endosome. Then, the endosomalytic activity of the adenovirus releases the plasmid DNA into the cell. It may also be desirable to lyophilize the cationic polymer/viral agent/polynucleotide complex before contacting the eukaryotic cell. Lyophilization can increase the stability of the complex for storage and can enhance the delivery characteristics.

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L13: Entry 3 of 11

File: USPT

Apr 17, 2001

US-PAT-NO: 6218370

DOCUMENT-IDENTIFIER: US 6218370 B1

TITLE: Glycerolipidic compounds used for the transfer of an active substance into a target cell

DATE-ISSUED: April 17, 2001

US-CL-CURRENT: 514/44; 424/450, 435/325, 435/375, 435/6, 536/23.1

APPL-NO: 9/ 171129

DATE FILED: October 13, 1998

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
FR	97 01475	February 10, 1997
FR	97 15805	December 12, 1997

PCT-DATA:

APPL-NO	DATE-FILED	PUB-NO	PUB-DATE	371-DATE	102(E)-DATE
PCT/FR98/00250	February 10, 1998	WO98/34910	Aug 13, 1998	Oct 13, 1998	Oct 13, 1998